

Tescom
CORPORATION

Instrument
DIVISION

Post Office Box 4222
Minneapolis, Minnesota 55414
Phone: Area Code 612 — 331-1311



30 Day Free Trial



**Free High
Intensity Lamp**



**Amazing New
Instrument**

Dear Friend:

We are pleased to announce the development of one of the most exciting tools ever introduced to industry.

This tool is the LITTLE TORCH and it has unlimited application in experimental activities, laboratory research, maintenance and upkeep endeavors and even in certain types of production line work.

THE LITTLE TORCH is a revolutionary new instrument where exacting miniature WELDING, HEATING, SOLDERING and BRAZING is advantageous. Weighing but a few ounces, the LITTLE TORCH produces a perfectly controlled, completely stable flame with temperatures up to 6300 degrees F.

Imagine using the LITTLE TORCH to fusion weld wire or even thermocouples less than 2 mil (.002) in diameter. Or think of the number of times you have had a heating application for glass tubing, or the need to weld 16 gauge metal sheets or even to join your tiniest components and precision parts.

NOW HERE IS WHAT YOU GET . . . The basic torch kit Model 23-1001-A which includes the torch, five tips, oxygen hose and fuel gas hose with connections costs only \$66.50. For those companies having their own oxygen and fuel gas supply but who need accuracy of flow for flame stability we recommend our Model 23-1003 which consists of:



LITTLE TORCH WITH COMPLETE HOSE ASSEMBLY



FIVE DIFFERENT SIZE TIPS



PRECISION FUEL GAS REGULATOR AND OXYGEN REGULATOR

(over please)

The amazing low low cost for this set is only \$143.50 . . . OR SHOULD YOU DESIRE COMPLETE PORTABILITY and/or where you don't have your own gas supply we recommend our Model 23-1004 LITTLE TORCH OUTFIT which is complete including filled oxygen and acetylene cylinders. The cost for this complete outfit is only \$258.00 and the cylinders become your property. A handy carrying case is also included.

AND THAT'S NOT ALL, by trying a \$143.50 LITTLE TORCH SET or a \$258.00 LITTLE TORCH OUTFIT we will send to you absolutely free, a beautiful HIGH INTENSITY LAMP.

Send us your purchase order today or simply mark an "X" in the box on the Free Inspection Certificate and we will ship you the COMPLETE LITTLE TORCH KIT you would like to try. If you are not completely satisfied, simply return the LITTLE TORCH. The HIGH INTENSITY LAMP is yours to keep.

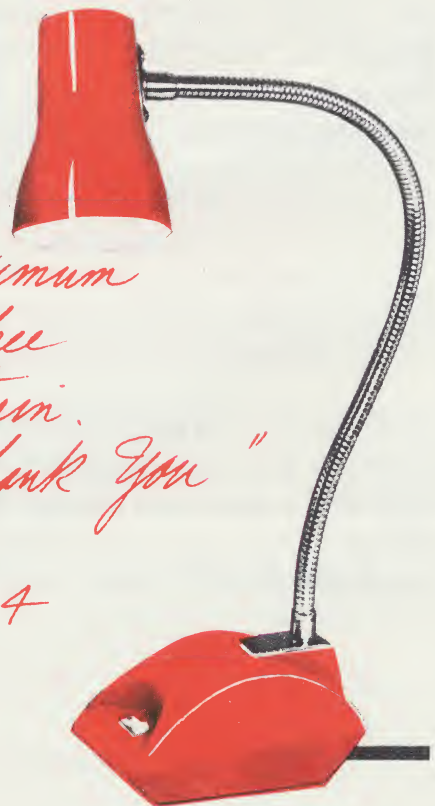
Sincerely,

R. Dahlner

Russell Dahlner

Application Service Manager

P.S. About your free High Density Lamp. This is the new desk or table lamp which provides the maximum in lighting by giving glare-free light that eliminates eye strain. It is our way of saying "Thank You" for trying a Model 23-11003 torch set or a Model 23-1004 complete torch outfit.



Tescom
CORPORATION

The "Little Torch"

Features New Controllable

Needle Point Flame



FLAME
TEMPERATURE
up to 6300° f.

The Versatile, Accurate Performer

Welds

with incomparable precision. Use to fusion weld an unlimited range of materials from less than .001" copper to 16 gauge steel, to plastics, ceramics and glass. The perfect solution to modern micro-joining problems in every field.

Brazes

even the tiniest components with accuracy unsurpassed. Ideal for precision bonding of high temp. alloys. Facilitates modern metal fabrications even in microscopic dimensions. An advanced precision instrument for unexcelled precision heat joining.

Solders

with amazing versatility. Does hard or soft soldering. Offers just the right temperatures for perfect adhesion and capillary action. Maneuvers easily in the tightest places. The best idea in soldering since the beginnings of miniaturization.

Heats

any material to extraordinary temperatures, offering an unlimited array of flame settings and sizes. Provides critical control for thread thin flames with up to 6300° F. temperatures using oxygen and acetylene. The big answer to any tiny heating need.

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The Versatile Torch With 1001 Applications



Silver soldering the brush shunts of an electric motor



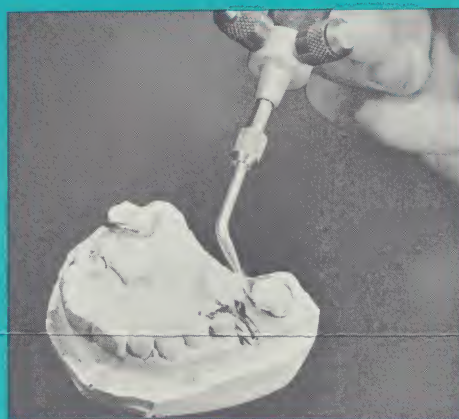
Repairing copper terminal straps on a jet engine rotor



Repairing the broken base plate on a fishing reel



Silver soldering a special sight ramp to a rifle barrel

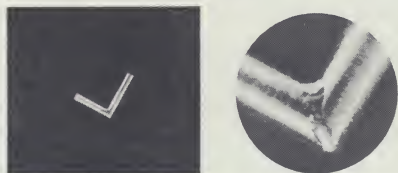


Welding the stainless alloy clasp of a partial denture

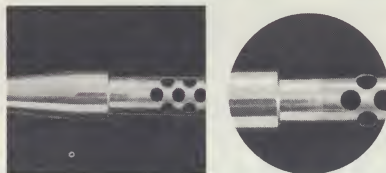


Soldering a broken die cast clasp on a gold bracelet

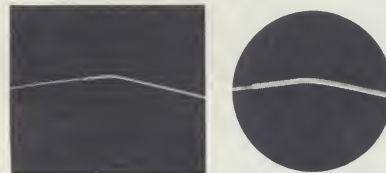
FUSION WELD—Platinum



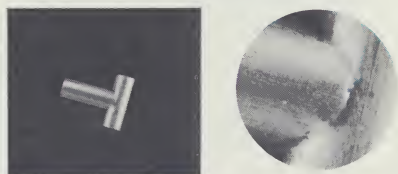
SILVER BRAZE—Stainless to Beryllium



SILVER BRAZE—Copper to Platinum



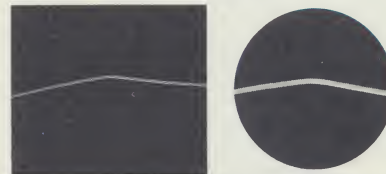
SOLDER—Platinum (Gold Filler)



GOLD BRAZE—Stainless Mesh



FUSION—Copper to Copper



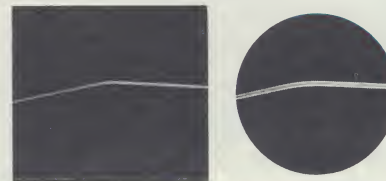
SILVER BRAZE—Gold Plated Stainless

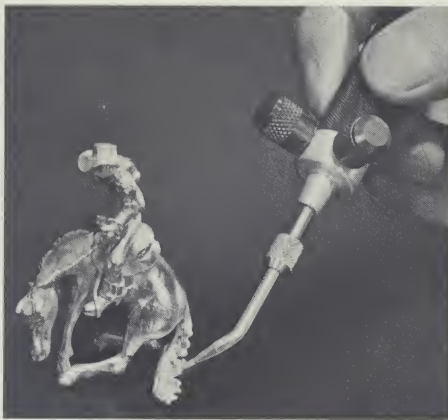


FUSION—1 mil to 21 mil Platinum



FUSION—Gold to Platinum





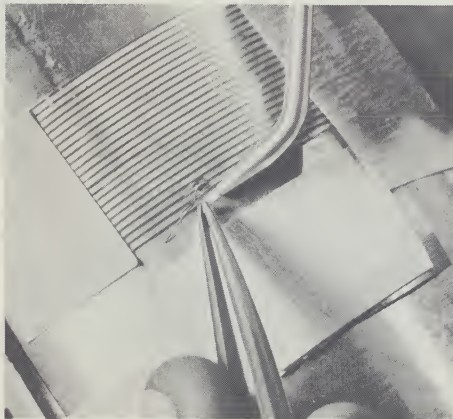
Giving the final touches to a piece of silver sculpture



Fusing glass tubing with tiny glass tube as welding rod



Joining the high temperature junction of a thermocouple



Soldering copper leads to 1/2 mil copper on a printed circuit

Ideal for Laboratories, Research and Development, Electronic Production and Repair, Dental Labs, Jewelry Making and Miniature Machinery

The Little Torch is a precision engineered, highly versatile instrument capable of doing seemingly impossible tasks with ease. It can use four different kinds of fuels—acetylene, hydrogen, LP or natural gas—and provides different flame characteristics with each. It produces a perfectly controlled, completely stable flame with temperatures up to 6300° F., that's hot enough to melt commercially weldable metals, glass, or even ceramics.

No wonder the Little Torch is being used to do an infinite variety of jobs from experimental laboratory work to aircraft maintenance; and, without fail users are being surprised by the Little Torch's capacity for doing impossible jobs with facility.

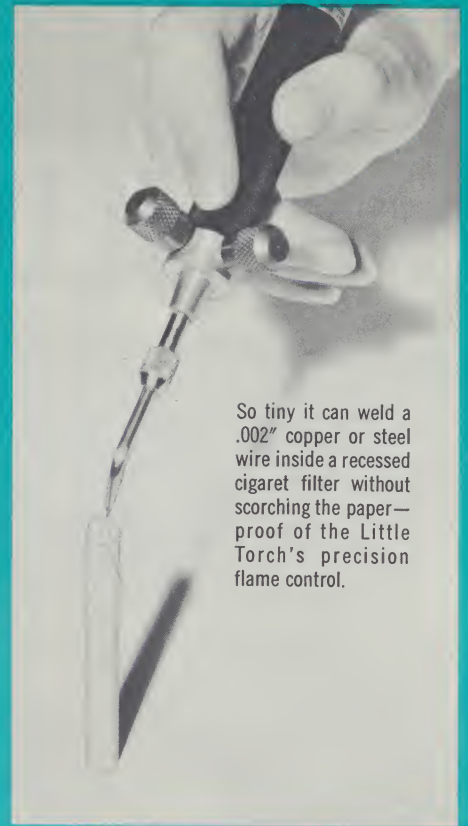
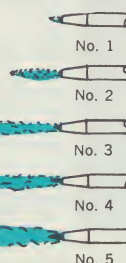
IDEAL FOR ANY MINIATURE FABRICATION OR MAINTENANCE JOB

Applications for the Little Torch are limited only by the user's imagination. For small, even microscopic work, in hard to reach places, and small spaces... the Little Torch provides versatility, maneuverability and a needle point flame for precision welding, brazing, soldering or heating. And the Little Torch is safe to use. It is backed by Tescom Corporation's reputation for superior products, dependability, and the experience gained through 45 years of producing this type of equipment.

TIP DATA AND FLAME CHARACTERISTIC CHART

TIP SIZE	ORIFICE SIZE	Gas Pressures (P.S.I.)		CONSUMPTION C.F.H. Ea. Gas
		Oxygen	Fuel Gas	
1	.003	2	2	.023
2	.006	3	3	.087
3	.011	3	3	.215
4	.020	3	3	1.625
5	.029	4	4	2.540

Flame drawings are symbolic representations of neutral settings for each tip. Obviously each tip has a variety of settings for particular needs.



So tiny it can weld a .002" copper or steel wire inside a recessed cigarette filter without scorching the paper—proof of the Little Torch's precision flame control.



23-1003 TORCH SET

Complete Set Includes:

- Aluminum alloy Torch Body
- 5 copper tips
- 6 feet of plastic hose
- 1 oxygen Instrument Regulator. Fits any commercial oxygen cylinder.
- 1 Fuel gas Instrument Regulator. Fits "MC" Acetylene cylinder.

NOTE: If the torch is to be used on larger cylinders, order the kit #23-1001, oxygen regulator H743, and fuel gas regulator H745. Specify the kind of fuel gas to be used and type of cylinder fittings (CGA). Line regulators for piped installation are available.

MINIATURE APPLICATIONS

Needle Point FLAME



Introducing A Precision TORCH for 1001

3

INDIVIDUAL
"Little Torch"
OUTFITS

1



23-1001A

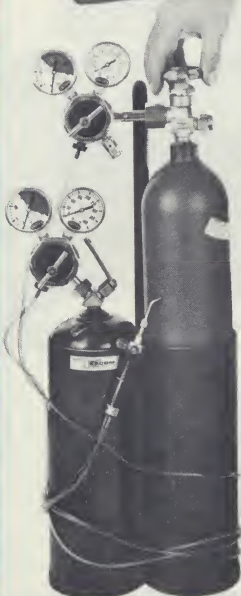
"Little Torch" in HANDY KIT

The basic Little Torch kit is ideal for use in the fully equipped shop or lab. Includes aluminum alloy torch body, 5 copper tips, 6 feet of durable plastic hose, adaptors to your regulators, and complete instructions. Can be used with acetylene, LP- Gas or hydrogen. Valves, connections and hoses are all color-keyed for convenience and safety.

2



COMPLETE "Little Torch" HANDY KIT AND CYLINDERS

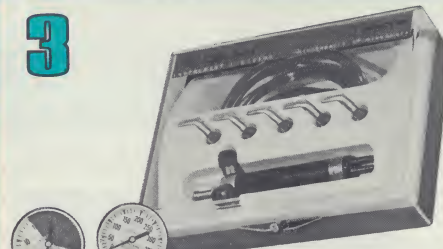


23-1004

Consists of basic kit plus two regulators, and oxygen and acetylene* cylinders. Handy carrying case included makes this Little Torch outfit highly mobile, convenient to handle. Each cylinder contains about 10 cu. ft. of gas (provides up to 435 hr. of operation). Net wt. 30 lbs.

*Outfit with hydrogen cylinder and regulator—23-1004-H.

3



"Little Torch" HANDY KIT WITH PRECISION REGULATORS



23-1003

Ideal for lab, or shop when fuel gas and oxygen cylinders are available from your gas supplier. Includes basic kit plus two regulators; one for oxygen, one for acetylene (LP-Gas or hydrogen regulators available). Regulators are designed to provide best Little Torch operation.

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Post Office Box 4222
Minneapolis, Minn. 55414

FREE INSPECTION CERTIFICATE

★ NO OBLIGATION ★ 30 DAY FREE TRIAL

Gentlemen:

I accept your offer to try the fine precision LITTLE TORCH. When I am completely satisfied with the 30 day FREE Trial, please invoice me. I am checking below the outfit I wish to try:

- ☐ Kit #23-1003 — \$143.50 Includes Torch, 5 Tips, Hoses, Oxygen and Acetylene Regulators.
- ☐ Kit #23-1001-A — \$66.50 Includes Torch, 5 Tips, Hoses, Adaptors.
- ☐ Kit #23-1004 — \$258.00 Includes #23-1003 with 10 cu. ft. oxygen and acetylene cylinders and carrying case.

I further understand that Tescom will pay ALL of the Freight and Insurance and that if I am not completely satisfied, I may return the set at Tescom's expense and pay nothing.

CREDIT REFERENCE _____

Nelson's Systems
Box 1546
Poughkeepsie, N. Y. 12603

1042-1

TESCOM CORPORATION INSTRUMENT DIVISION



Set
#23-1003
Shown

FIRST CLASS

PERMIT NO. 1660
MINNEAPOLIS, MINN.

BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

VIA AIRMAIL

POSTAGE WILL BE PAID BY



INSTRUMENT DIVISION
BOX 4222
MINNEAPOLIS, MINNESOTA 55414